



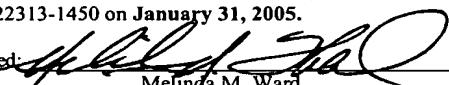
*IFW*  
PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the application of: )  
BAILEY III et al. ) Group Art Unit: 2811  
Application No. 10/769,498 ) Examiner: Unassigned  
Filed: January 30, 2004 ) Atty. Docket No. LAM2P447  
For: STRESS FREE ETCH PROCESSING IN ) Date: January 31, 2005  
COMBINATION WITH A DYNAMIC LIQUID )  
MENISCUS )

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service as First Class Mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450 Alexandria, VA 22313-1450 on January 31, 2005.

Signed:   
Melinda M. Ward

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents  
Alexandria, VA 22313-1450

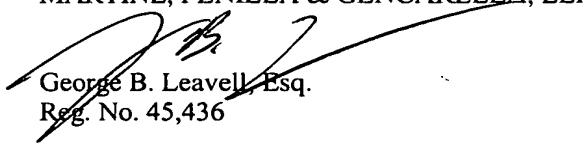
Dear Sir:

The references listed in the attached PTO Form 1449, a copy of which is attached, may be material to examination of the above-identified patent application. Applicants submit these references in compliance with their duty of disclosure pursuant to 37 CFR §§ 1.56 and 1.97. The Examiner is requested to consider these references and to acknowledge such consideration by initialing the appropriate location on the attached PTO Form 1449.

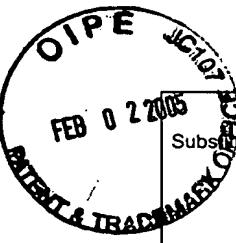
This Information Disclosure Statement (IDS) is not to be construed as a representation that a search has been made, that additional information material to the examination of this application does not exist, or that these references indeed constitute prior art.

This IDS is believed to be filed before the mailing date of a first Office Action. Accordingly, it is believed that no fees are due in connection with the filing of this IDS. However, if it is determined that any fees are due, then the Commissioner is hereby authorized to charge such fees to Deposit Account 50-0805 (Order No. LAM2P447).

Respectfully submitted,  
MARTINE, PENILLA & GENCARELLA, LLP

  
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Substitute for form 1449/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**  
*(Use as many sheets as necessary)*

Sheet	1	of	7	Attorney Docket Number	LAM2P447
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**U.S. Patent Documents**

Examiner Initials	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
	A-1	US 2003/0224596	Dec 4, 2003	Marxsen et al.	
	B-1	6,653,224	Nov 25, 2003	Gotkis et al.	
	C-1	US 2003/0213558	Nov 20, 2003	Basol et al.	
	D-1	US 2003/0211746	Nov 13, 2003	Chen et al.	
	E-1	US 2003/0203321	Oct 30, 2003	Ma et al.	
	F-1	US 2003/0199112	Oct 23, 2003	Shanmugasundram et al.	
	G-1	US 2003/0196989	Oct 23, 2003	Zhou et al.	
	H-1	6,630,413	Oct 7, 2003	Todd	
	I-1	US 2003/0186546	Oct 2, 2003	Wollstein et al.	
	J-1	US 2003/0184732	Oct 2, 2003	Katz et al.	
	K-1	6,620,726	Sep 16, 2003	Preusse et al.	
	L-1	US 2003/0166345	Sep 4, 2003	Chang	

**Foreign Patent Documents**

Examiner Initial	Cite No. <sup>1</sup>	Foreign Patent Document No.	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> -Number- <sup>4</sup> Kind Code <sup>5</sup> (if known)				
	M-1	WO 03/058703	Jul 17, 2003	Gotkis et al.		<input type="checkbox"/>
	N-1	WO 01/88229	Nov 22, 2001	Wang		<input type="checkbox"/>
	O-1	WO 00/03426	Jan 20, 2000	Wang		<input type="checkbox"/>
	P-1	JP 07235543	Sep 5, 1995	Fukuyama		<input type="checkbox"/>

**Non Patent Literature Documents**

Examiner Initial	Cite No.	Include name of author (in CAPTIAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published
	Q-1	Y. OSHITA, N. HOWI, "Lower temperature plasma etching of Cu using IR light irradiation", Thin Solid Films, 1995
	R-1	LYNN R. ALLEN, JOHN M. GRANT, "Tungsten plug etchback and substrate damage measured by atomic force microscopy", J. Vac. Sci Technol. May/Jun 1995 pp 918-922
	S-1	WILLIAM F. MARX, YUNJU RA, RICHARD YANG, CHING-HWA CHEN, "Plasma and processing effects of electrode spacing for tungsten etchback using a bipolar electrostatic wafer clamp", J. Vac. Sci Technol. Nov/Dec 1994 pp 3087-3090

Examiner Signature	Date Considered
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				Examiner Name	Unassigned
Sheet	2	of	7	Attorney Docket Number	LAM2P447

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		Number-Kind Code <sup>2</sup> (if known)			
	A-2	US 2003/0164354	Sep 4, 2003	Hsieh et al.	
	B-2	6,617,232	Sep 9, 2003	Kim et al.	
	C-2	US 2003/0119305	Jun 26, 2003	Huang et al.	
	D-2	6,582,974	Jun 24, 2003	Lui et al.	
	E-2	6,576,550	Jun 10, 2003	Brase et al.	
	F-2	6,579,800	Jun 17, 2003	Basol et al.	
	G-2	6,573,187	Jun 3, 2003	Chen et al.	
	H-2	US 2003/0092260	May 15, 2003	Lui et al.	
	I-2	US 2003/0087586	May 8, 2003	Kaushal et al.	
	J-2	6,559,049	May 6, 2003	Chen et al.	
	K-2	US 2003/0082996	May 1, 2003	Fortin et al	
	L-2	US 2003/0073319	Apr 17, 2003	Basol et al.	

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		Country Code <sup>3</sup> -Number- <sup>4</sup> Kind Code <sup>5</sup> (if known)				
	M-2	JP 07230993	Aug 29, 1995	Hiidenobu et al.		<input type="checkbox"/>
	N-2					<input type="checkbox"/>
	O-2					<input type="checkbox"/>
	P-2					<input type="checkbox"/>

**Non Patent Literature Documents**

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	Q-2	J. FARKAS, K.-M. CHI, M.J. HAMPDEN-SMITH, T.T. KODAS, "Low-temperature copper etching via reactions with Cl <sub>2</sub> and Pet, under ultrahigh vacuum conditions", J. Appl. Phys, February 1993, pp 1455-1460
	R-2	SEONGJU PARK, T.N. RHODIN, L.C. RATHBUN, "Halide formation and etching of Cu thin films with Cl <sub>2</sub> and Br <sub>2</sub> ", J. Vac. Sci Technol., Mar/Apr 1986, pp 168-172
	S-2	LYNN R. ALLEN, "Tungsten Plug Etchback In A TCP Etcher", Sharp Microelectronics Technology, Inc., pp 255-263
	T-2	N. HOSOI, Y. OHSHITA, "Plasma Etching Of Copper Films Using IR Light Irradiation", Mat. Res. Soc. Symp. Proc. Vol. 337, 1994, pp 201-205
Examiner Signature		Date Considered

Examiner: Initial if reference is considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

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		Number-Kind Code <sup>2</sup> (if known)			
A-3	US 2003/0057179		Mar 27, 2003	Luo et al.	
B-3	US 2003/004375		Mar 13, 2003	Nguyen et al.	
C-3	US 2003/0044725		Mar 6, 2003	Hsue et al.	
D-3	US 2003/0045100		Mar 6, 2003	Saka et al.	
E-3	6,527,911		Mar 4, 2003	Yen et al.	
F-3	US 2003/0032278		Feb 13, 2003	Chen et al.	
G-3	US 2003/0029567		Feb 13, 2003	Dhindsa et al.	
H-3	6,517,413		Feb 11, 2003	Hu et al.	
I-3	US 2003/0013316		Jan 16, 2003	Kim et al.	
J-3	6,500,357		Dec 31, 2002	Luo et al.	
K-3	US 2002/0192966		Dec 19, 2002	Shanmugasundram et al.	
L-3	US 2002/0192957		Dec 19, 2002	Chien et al.	

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T-3		

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		Number-Kind Code <sup>2</sup> (if known)			
A-4	US 2002/0187627		Dec 12, 2002	Yuang	
B-4	US 2002/0182853		Dec 5, 2002	Chen et al.	
C-4	US 2002/0175071		Nov 28, 2002	Hymes	
D-4	6,486,059		Nov 26, 2002	Lee et al.	
E-4	6,482,331		Nov 19, 2002	Lu et al.	
F-4	6,479,391		Nov 12, 2002	Morrow et al.	
G-4	6,475,298		Nov. 5, 2002	O'Donnell et al.	
H-4	US 2002/0153350		Oct 24, 2002	Lu et al.	
I-4	US 2002/0124867		Sep 12, 2002	Kim et al.	
J-4	US 2002/0121500		Sep 5, 2002	Annapragada et al.	
K-4	6,423,200		Jul 23, 2002	Hymes	
L-4	US 2002/0155695		Oct 24, 2002	Lee et al.	

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	R-4	
	S-4	
	T-4	

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		Number-Kind Code <sup>2</sup> (if known)			
	A-5	6,448,176	Sep 10, 2002	Grill et al.	
	B-5	US 2002/0081854	Jun 27, 2002	Morrow et al.	
	C-5	US 6,408,786	Jun 25, 2002	Kennedy et al.	
	D-5	US 2002/0045354	Apr 18, 2002	Ye et al.	
	E-5	6,368,517	Apr 9, 2002	Hwang et al.	
	F-5	6,365,327	Apr 2, 2002	Chittipeddi et al.	
	G-5	6,352,081	Mar 5, 2002	Lu et al.	
	H-5	US 2002/0016084	Feb 7, 2002	Todd	
	I-5	US 2001/0054381	Dec 27, 2001	Umotoy et al.	
	J-5	6,331,380	Dec 18, 2001	Ye et al.	
	K-5	6,313,025	Nov 6, 2001	Chittipeddi et al.	
	L-5	6,227,140	May 8, 2001	Kennedy et al.	

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A-6	6,184,128		Feb 6, 2001	Wang et al.	
B-6	6,174,813		Jan 16, 2001	Wang	
C-6	6,153,530		Nov 28, 2000	Ye et al.	
D-6	6,153,116		Nov 28, 2000	Yang et al.	
E-6	6,147,005		Nov 14, 2000	Tu et al.	
F-6	6,140,226		Oct 31, 2000	Grill et al.	
G-6	6,133,144		Oct 17, 2000	Tsai et al.	
H-6	6,083,822		Jul 4, 2000	Lee	
I-6	6,056,864		May 2, 2000	Cheung	
J-6	6,008,130		Dec 28, 1999	Henderson et al.	
K-6	6,004,188		Dec 21, 1999	Roy	
L-6	5,968,847		Oct 19, 1999	Ye et al.	

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A-7	5,770,100		Jun 23, 1998	Fukuyama et al.	
B-7	5,744,402		Apr 28, 1998	Fukazawa et al.	
C-7	5,556,714		Sep 17, 1996	Fukuyama et al.	
D-7	5,534,751		Jul 9, 1996	Lenz et al.	
E-7	5,387,315		Feb 7, 1995	Sandhu	
F-7	5,380,397		Jan 10, 1995	Fukuyama et al.	
G-7	5,302,241		Apr 12, 1994	Cathey, Jr.	
H-7	5,256,565		Oct 26, 1993	Bernhardt et al.	
I-7	5,200,031		Apr 6, 1993	Latchford et al.	
J-7	5,098,516		Mar 24, 1992	Norman et al.	
K-7	5,009,738		Apr 23, 1991	Gruenwald et al.	
L-7	4,985,113		Jan 15, 1991	Fujimoto et al.	

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